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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,408	12/23/2003	Satoru Komatsu	107355-00100	9618

7590 07/13/2005

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EXAMINER

A, MINH D

ART UNIT PAPER NUMBER

2821

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

H.A

Office Action Summary

Application No.

10/743,408

Applicant(s)

KOMATSU ET AL.

Examiner

Minh D. A

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 5/2/05.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwasaki (US 6,124,829).

Regarding claim 1, Iwasaki discloses a circularly polarized wave patch antenna with wide short-circuit portion comprising: a radiation element (patch radiator inside the circle-annular antenna (53) provided on a dielectric substrate (51 and 52); a grounding conductor (58) provided on the dielectric substrate (51 and 52) and surrounding a periphery of an outer edge portion of the radiation element (radiator inside the patch antenna (53)) at a position spaced away outwardly from the outer edge portion; and a conductive member(53) provided on a the dielectric substrate(51 and 52) at a position spaced away outwardly from an outer edge portion of the grounding conductor(58) , wherein the radiation element(radiator), and the grounding conductor(58), and the conductive member(53) are provided on the same surface of the dielectric substrate (51 and 52). See figures 17-22, col.8, lines 1-67.

Regarding claim 2, Iwasaki discloses wherein the conductive member (53) surrounds the periphery of the edge portion of the grounding conductor (58) at a position spaced away outwardly from the outer edge portion. See figures 17-18.

Regarding claim 3, Iwasaki discloses the conductive member (53) is circular-shape. See figure 17.

Regarding claim 4, Iwasaki inherently discloses the conductive member is film, since all conductive member can be used the film material.

Regarding claim 5, Iwasaki discloses a linear antenna (53) provided at a position spaced away from the conductive member and at the opposite side of the grounding conductor (58). See figures 17-18.

Regarding claim 6, Iwasaki discloses an antenna comprising: a radiation element (radiator inside the patch antenna (53)) provided on a dielectric substrate (51 and 52); a grounding conductor (58) surrounding a periphery of an outer edge portion of the radiation element (radiator inside the patch antenna) at a position spaced away outwardly from the outer edge portion; and a pair of conductive members (53 on left side and right side) provided on the surface at a position spaced away outwardly from an outer edge portion of the grounding conductor (58) so as to oppose each other, wherein the radiation element the grounding conductor, and the pair of conductive member are provided on the same surface of the dielectric substrate. See figures 17-22, col.8, lines 1-67.

Conclusion

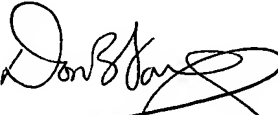
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Marumoto et al (US 6,556,168) and Kalt et al. (US 6,057,814) are cited to show an antenna device.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Minh A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 –2:30 PM).

If attempts to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and (703) 872-9319 for final communications.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (571) 272-1553.


Don Wong
Supervisory Patent Examiner
Technology Center 2800

Examiner

Minh A

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7/6/05